

AMENDMENTS TO THE SPECIFICATION**PARAGRAPH 0026**

In order to take further advantage of the benefits of embodiments described above, a further embodiment of the present invention is a method for protecting an article from a high temperature, oxidative environment, the method comprising:—
providing a substrate 110 comprising a nickel-based superalloy;—
providing an ion plasma deposition target 108, the target 108 comprising—
from about 2 atom percent to about 25 atom percent chromium,—
up to about 4 atom percent of a material selected from the group consisting of zirconium, hafnium, tantalum, silicon, yttrium, titanium, lanthanum, cerium, and combinations thereof,—
up to about 0.2 percent of a material selected from the group consisting of carbon, boron, and combinations thereof, and—
the balance comprising aluminum;—
depositing a protective coating onto the substrate 110 using the target 108 in an ion plasma deposition process, wherein a negative potential bias is applied to the substrate 110 during deposition of the protective coating; and—
heat treating the substrate 110 after depositing the protective coating;—
wherein after heat treating, the protective coating comprises a B2-structured aluminide intermetallic phase. The additional steps of coating substrate 110 with a metal layer comprising at least one of platinum, palladium, nickel, and cobalt, and heat treating substrate 110 after coating substrate 110 with the metal layer, described previously, are applicable to this embodiment as well.